Substitute Form PTO-1449
(Revised)U.S. Department of Commerce
Patent and Trademark OfficeAttorney's Docket No.
12259-034001Application No.
10/669,101**Information Disclosure Statement
by Applicant**

(Use several sheets if necessary)

(37 CFR 1.98(b))

Applicant
Richard LevensonFiling Date
September 23, 2003Group Art Unit
~~3737~~ 3709**U.S. Patent Documents**

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
IK	AA	4,379,233	05/1983	Rosenthal			
	AB	4,519,707	5/23/1985	Kuffer			
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	AE	5,029,245	07/1991	Keränen et al.			
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	AQ	5,912,165	6/15/1999	Cabib et al.			
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	AZ						

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Signature

/Iman Kholdebarin/

Date Considered

11/14/2006

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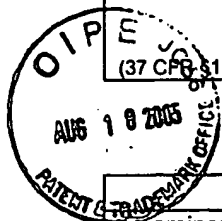
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							Yes	No
IK	BA	WO 01/11343	2/15/2001	WIPO				
	BB							
	BC							

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	BE	B.R. Stallard, Construction of Filter Vectors for the Information-Efficient Spectral Imaging Sensor," Imaging Spectroscopy IV, Proc. SPIE, Vol 3438, pp. 172-182, San Diego, 1998.
	BF	L.O. Jimenez et al., "High Dimensional Feature Reduction via Projection Pursuit," TR-ECE 96-5, School of Electrical Engineering, Purdue University, West Lafayette, IN 47907-1285, April, 1995.
	BG	Hyvarinen et al., "Novel Spectroscopic Techniques for Biomedical Applications," Optoelectronics Laboratory, Finland, SPIE Vol. 2084, pp. 224-230. <i>undated</i>
	BH	Keraanen et al., "Thirty-two Channel LED Array Spectrometer Module with Compact Optomechanical Construction," Technical Research Centre of Finland, Electronics Laboratory, Finland, SPIE Vol. 1533 Optomechanics and Dimensional Stability (1991), pp. 122-128.
	BI	Gentry et al., "Biomedical Applications of the Information-Efficient Spectral Imaging Sensor (ISIS), Gentry, SPIE Vol. 3603, pp. 129-142. <i>undated</i>
	BJ	Shnitser et al., "Spectrally Adaptive Light Filtering," Physical Optics Corporation, Torrance, CA, SPIE Vol. 3140, pp. 117-127. <i>Undated</i>
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	BL	Sweatt et al., "ISIS: An Information-Efficient Spectral Imaging System," Sandia National Laboratories, Albuquerque, NM, SPIE Vol. 3438, pp. 98-106. <i>Undated</i>
	BM	Jimenez et al., "Supervised Classification in High Dimensional Space: Geometrical, Statistical and Asymptotical Properties of Multivariate Data," IEEE Transactions on Geoscience and Remote Sensing, Vol. 37, No. 6, November 1999; Project in Pursuit in Hyperspectral Data Analysis, Jimenez & Landgrebe, November 23, 1999, pp. 1-32.
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	AD	David Gillis et al. "Using Endmembers as a Coordinate System in Hyperspectral Imagery." Naval Research Laboratory, Washington, DC. 1-9. <i>Undated</i>
	AE	Andrew A. Green et al. "A Transformation for Ordering Multispectral Data in Terms of Image Quality with Implications for Noise Removal." IEEE Transactions of Geoscience and Remote Sensing Vol. 26, No. 1 January 1988. 65-74.
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	AG	Nirmal Keshava et al. "Spectral Unmixing." IEEE Signal Processing Magazine. January 2002. 44-57.
	AH	David Landgrebe. "Hyperspectral Image Data Analysis." IEEE Signal Processing Magazine, January 2002. 17-28.
	AI	David Landgrebe. "Information Extraction Principles and Methods for Mutispectral and Hyperspectral Image Data." School of Electrical and Computer Engineering. (1998) 1-29. <i>Undated</i>
	AJ	Dimitris Manolakis et al. "Detection Algorithms for Hyperspectral Imaging Applications." IEE Signal Processing Magazine. January 2002. 29-43.
	AK	Jose M.P. Nascimento. "Vertex Component Analysis: A Fast Algorithm to Unmix Hyperspectral Data." 1-23. <i>Undated</i>
	AL	R.A Neville et al. "Automatic Endmember Extraction from Hyperspectral Data for Mineral Exploration." Fourth International Airborne Remote Sensing Conference and Exhibition June 1999. 1-8.
	AM	Antonio Plaza et al. "A Quantitative and Comparitive Analysis of Endmember Extraction Algorithms from Hyperspectral Data." IEEE Transactions on Geoscience and Remote Sensing Vol. 42 No. 3, March 2004. 650-663.
	AN	Antonio Plaza et al. "Spatial/Spectral Endmember Extraction by Multidimensional Mophological Operations." IEEE Transactions on Geoscience and Remote Sensing Vol. 40, No. 9 September 2002. 2025-2041.
	AO	F.P. Seelos IV et al. "Bounded Variable Least Squares - Application of a Constrained Optimization Algorithm to the Analysis of TES Emmisivity Spectra." Lunar and Planetary Sciences XXXIV (2003) 56-69. <i>undated</i>
	AP	David W. J. Stein et al. "Anomaly Detection from Hyperspectral Imagery." IEEE Signal Processing Magazine. January 2002. 58-69
IK	AQ	Tamara Troy et al. "Quantitative Comparison of the Sensitivity of Detection of Flourescent and Bioluminescent Reporters in Animal Models." Molecular Imaging Vol. 5 No. 1, January 2004. 9-23.

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IK	AR	Stefan Wild et al. "Motivating Non-Negative Matrix Factorizations." Department of Applied Mathematics, University of Colorado, 1-11. <i>undated</i>
IK	AS	Michael E. Winter. "Fast Autonomous Spectral Endmember Determination in Hyperspectral Data." 13 th International Conference on Applied Geologic Remote Sensing, March 1-3 1999. 1-16.
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	AB						
	AC						

Foreign Patent Documents or Published Foreign Patent Applications								
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							Yes	No
	AD							
	AE							
	AF							

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IK	AG	Nicholas Billinton et al., "Seeing the Wood through the Trees: A Review of Techniques for Distinguishing Green Fluorescent Protein from Endogenous Autofluorescence", <u>Analytical Biochemistry</u> , Vol. 291, pp. 175-197 (2001) considered
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IK	AI	Luis Jimenez et al., "Supervised Classification in High Dimensional Space: Geometrical, Statistical and Asymptotical Properties of Multivariate Data", <u>IEEE Transactions on Geoscience and Remote Sensing</u> , Vol. 37, No. 6 (November 1999)
	AJ	

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